Blakely, Sokoloff, Taylor & Zafman LLP   (503) 684-6200
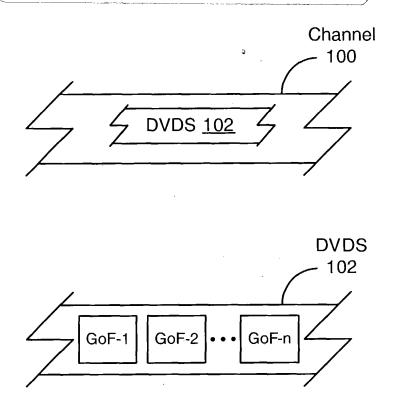Title: METHOD FOR DISPLAYING BASE FRAMES DURING VIDEO DATA
DECROMPRESSION
1st Named Inventor: Michael Castillo
Express Mail No.: EV325526541US ·
Sheet: 1 of 8   Docket No.: 42P15475

Channel
100

DVDS 102

DVDS
102

| GoF-1 | GoF-2 | • • • | GoF-n |

GoF-1
104

| BF | RF | RF | RF | BF | RF | • • • | BF |

Frame-1 Frame-2 Frame-3 Frame-4 Frame-5 Frame-6   Frame-n

FIG. 1

Digital Video
Provider
210

Digital Video
Network
220

Digital Video
Receiver
300

Display
Device
230

200

FIG. 2

300

```
+-----------------------------------------------+
|                                               |
|   +---------------------------------------+   |
|   |                                       |   |
|   |  +-------------+     +-------------+   |   |
|   |  |             |     |             |   |   |
|   |  | Processing  |---->| Base Frame  |   |   |
|   |  |   Unit      |     |  Selector   |   |   |
|   |  |             |     |             |   |   |
|   |  |    312      |     |    314      |   |   |
|   |  +-------------+     +-------------+   |   |
|   |                                       |   |
|   |                         Tuner 310     |   |
|   +---------------------------------------+   |
|                                               |
+-----------------------------------------------+
```

FIG. 3

400

Tuner 320

Base
Frame
Selector
328

Processing
Unit
322

Temporary
Storage
Location
326

Predictor
324

Tuner 310

Base
Frame
Selector
314

Processing
Unit
312

Tuner Selection Unit
330

FIG. 4

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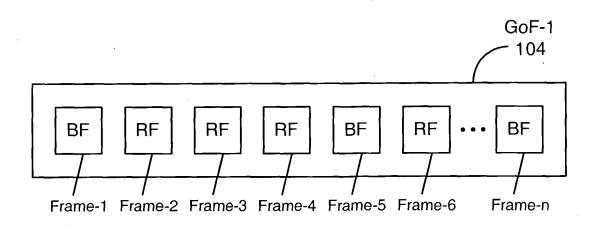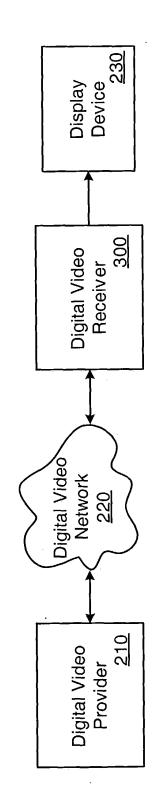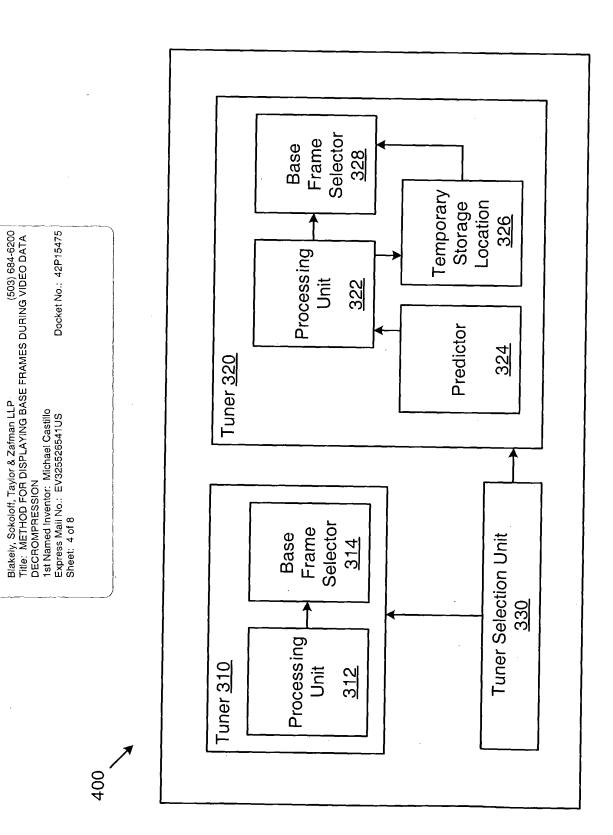Express Mail No.: EV325526541US   Docket No.: 42P15475
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500

START

Select a base frame of a digital video data stream   502

Decompress the selected base frame prior to decompressing the remaining frames   504

Provide decompressed base frame to display device   506

Display device presents decompressed base frame prior to decompression of remaining frames   508

END

600 →

```
                    ┌──────────────────┐
                    │      START       │
                    └──────────────────┘
                             │
                             ▼
        ┌─────────────────────────────────────┐
        │  Decompress a digital video data     │   602
        │  stream on a first channel           │
        └─────────────────────────────────────┘
                             │
                             ▼
        ┌─────────────────────────────────────┐
        │  Select a base frame of one or more  │   604
        │  buffered channels                   │
        └─────────────────────────────────────┘
                             │
                             ▼
        ┌─────────────────────────────────────┐
        │  Decompress the selected base frame  │   606
        └─────────────────────────────────────┘
                             │
                             ▼
        ┌─────────────────────────────────────┐
        │  Buffer the decompressed base frame  │   608
        └─────────────────────────────────────┘
                             │
                             ▼
        ┌─────────────────────────────────────┐
        │  Indication received to switch from  │   610
        │  first channel to buffered channel   │
        └─────────────────────────────────────┘
                             │
                             ▼
        ┌─────────────────────────────────────┐
        │  Provide decompressed base frame to  │   612
        │  display device                      │
        └─────────────────────────────────────┘
                             │
                             ▼
        ┌─────────────────────────────────────┐
        │  Display device presents decompressed│   614
        │  base frame prior to decompession of │
        │  remaining frames                    │
        └─────────────────────────────────────┘
                             │
                             ▼
                    ┌──────────────────┐
                    │       END        │
                    └──────────────────┘
```
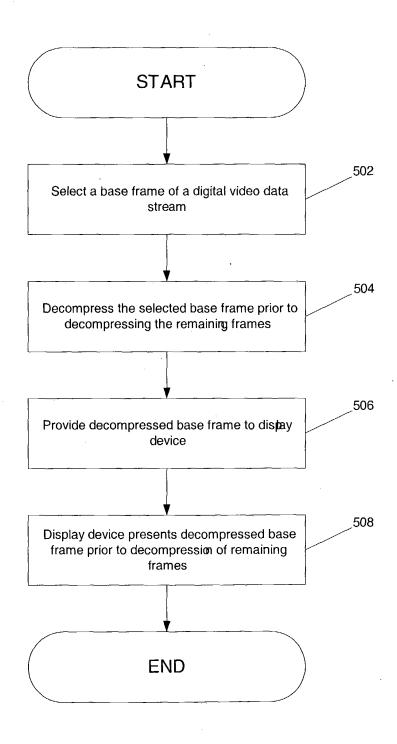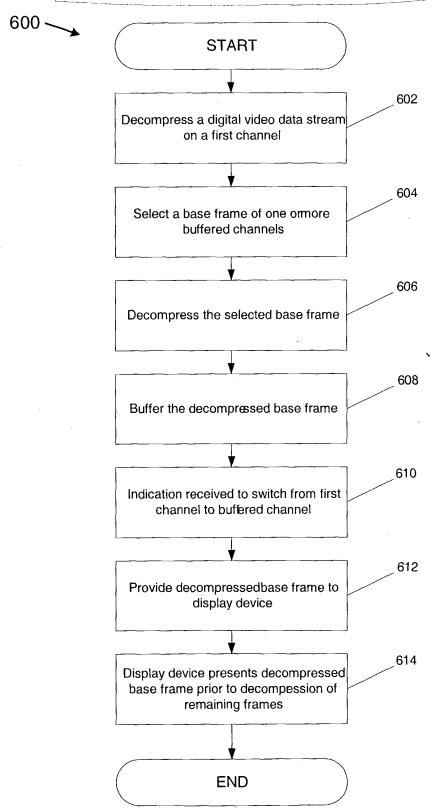
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700

START

First tuner decompresses a digital video data stream on a first channel — 702

Second tuner selects a base frame of one or more buffred channels — 704

Second tuner decompresses the selected base frame — 706

Second tuner buffers the decompressed base frame — 708

Selection unit receives indication to switch from first channel to a second channel — 710

712
Is indication to switch to a buffered channel ?

Tuner selection unit chooses first tuner — 720

Tuner selection unit chooses second tuner — 714

Second tuner provides decompressed base frame to display device — 716

Display device presents decompressed base frame prior to decompression of remaining frames — 718

Go to 502 — 722

END

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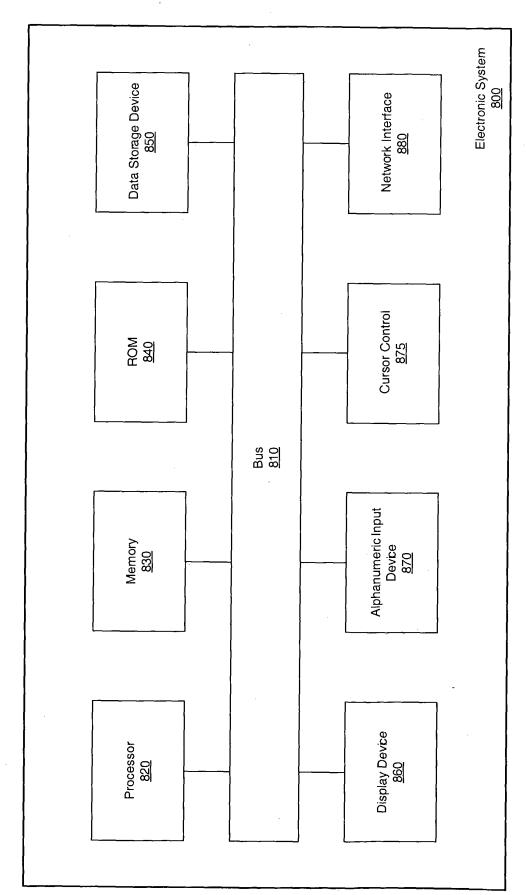1st Named Inventor: Michael Castillo   Docket No.: 42P15475
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| Processor 820 | Memory 830 | ROM 840 | Data Storage Device 850 |

Bus 810

| Display Device 860 | Alphanumeric Input Device 870 | Cursor Control 875 | Network Interface 880 |

Electronic System 800

Fig. 8